

Claims

We claim:

1. A hydraulic pump assembly comprising:
a hydraulic pump mounted in a pump housing;
5 an electric fan mounted on the pump housing.
2. The assembly as set forth in Claim 1, wherein the fan is mounted on the top of the hydraulic pump.
3. The assembly as set forth in Claim 2, wherein the fan is secured to the pump by a bracket.
4. The assembly as set forth in Claim 3, further comprising an upper shroud which envelops
10 the fan and directs air from a cooler region to the fan.
5. The assembly as set forth in Claim 3, further comprising a lower shroud which directs air along the hydraulic pump.
6. The assembly as set forth in Claim 1, wherein the fan is mounted on the side of the hydraulic pump.
- 15 7. The assembly as set forth in claim 6, wherein the assembly is secured to the hydraulic pump by fasteners threaded into the pump housing.
8. The assembly as set forth in Claim 1, wherein the assembly further comprises a controller that senses the temperature of the hydraulic pump and actuates the fan such that the speed of the fan increases as the temperature of the hydraulic pump increases.
- 20 9. A means for cooling a hydraulic pump comprising:
an electric fan mounted on the hydraulic pump;
a shroud that envelops the fan and directs air from a cooler region to the fan;

a controller that senses the temperature of the hydraulic pump and actuates the electric fan such that the speed of the fan increases as the temperature of the hydraulic fan increases.